PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

E NAME/ADDRESS(INCLUDE NAME/LOCATION IF DIFFERENT)

National Reconnaissance of Lice
National Recon Office-Hodge Supplier NAME ADDRESS

VA 20151

14638/4880Rd 21B02L Chantilly

LOCATION 14675 Lee Rd Chantilly

FACILITY

VA 2015

COMMONWEALTH OF VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

COOLING WATER DISCHARGE

MONITORING REPORT(DMR)

VAG250634 PERMIT NUMBER

FROM

001 DISCHARGE NUMBER

MONITORING PERIOD YEAR MO DAY YEAR MO DAY 04 01 06 30 TO

03/12/2013

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

Northern Regional Office

13901 Crown Court

Woodbridge

VA 22193

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANT	TTY OR LOADING			QUALITY OR CONCENTRATION				FREQUENCY	JOHNIPLE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	ANALYSIS	TYPE
001 FLOW	REPORTED	******	0.005	MGD	******	*****	*******			1/3 M	EST
	REQUIREMENT	******	0.05	MGD		*******	******	1	-	1/3M	EST
002 РИ	REPORTED	******	*******		8.92	******	8.92	54	-	1/3M	GRAB
	REQUIREMENT	******	*****		6.0	******	9.0	SU		1/3M	GRAB
012 PHOSPHORUS, TOTAL (AS P)	REPORTED	******	*******		*****	******	1.25	MG/L		1/3M	GRAB
	REQUIREMENT	******	******		*******	********	NL	MG/L		1/3M	GRAB
039 AMMONIA, AS N	REPORTED	*****	*******		******	*******	<0.	MG/L		1/3M	GRAB
	REQUIREMENT	******	******		*******		NL	MG/L		1/3M	GRAB
080 TEMPERATURE,	REPORTED	*******	*******		*****	******	25.8	C		1/3 M	IS
WATER (DEG. C)	REQUIREMENT	******	********		*******	******	32	С		1/3M	IS
137 HARDNESS, TOTAL	REPORTED	*******	*******		******	******	591	MG/L	1	1/3 M	GRAB
(AS CACO3)	REQUIREMENT	******	*******		*******	******	NL	MG/L	1	1/3M	GRAB
165 CL2, INST RES MAX	REPORTED	******	*******		****	******	0.48	MG/L		1/3m	GRAB
	REQUIREMENT	******	*******		******		ND	MG/L		1/3M	GRAB
196 ZINC, TOTAL	REPORTED	******	*******		*****	******	28.1	46/L	1	1/3M	GRAB
RECOVERABLE	REQUIREMENT	******	*******	-	*******	******	NL	UG/L		1/3M	GRAB

BYPASSES AND	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATO		DATE			
OVERFLOWS	٥	0	NA	Randy A- Wallinger	many		293	7	1
		HAT THIS DOCUMENT AND A		TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
DESIGNED TO A INFORMATION S	SSURE THAT QUALIFIE UBMITTED: HASED ON:	UPERVISION IN ACCOMDANC D PERSONNEL PROPERLY GA MY INQUIRY OF THE PERSO ERSONS DIRECTLY RESENTS	ATHER AND EVALUATE THE ON OR PERSONS	PRINCIPAL EXECUTIVE OFFICE	R OR AUTHORIZED AGENT	TELEPHONE			· · · · · · · · ·
MRO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEIGE AND BELIEF TRUE, ACCURATE AND COMPLETE, I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE			OF MY KNOWLENGE AND ERE ARE SIGNIFICANT	TYPED OR PRINTED NAME	SIGNATURE	YEAR N		MO.	DAY
AND IMPRISORM	ENT FOR KNOWING VIO	LATIONS.	· 	TODO Williams	Tool a. W		2013	7	1

PERMITTEE NAME/ADDRESS(INCLUDE National Reconnaissance Office National Reconnaissance Office Supplement 11638/MgwoRd 21802L FACILITY NAME/LOCATION IF DIFFERENT)

Chantilly

Chantilly

14675 Lee Rd

VA

NAME

ADDRESS

FACILITY

LOCATION

COMMONWEALTH OF VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

COOLING WATER DISCHARGE

DISCHARGE MONITORING REPORT(DMR)

VAG250034	601
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD YEAR MO DAY YEAR MO DAY 04 01 06

03/12/2013

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

Northern Regional Office 13901 Crown Court Woodbridge VA 22193

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		THATE	TO LOADING			QUALITY OR CONCENTRATION				FREQUENCY	SAMPLE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	ANALYSIS	TYPE
203 COPPER, TOTAL RECOVERABLE	REPORTED	*******	*******		*******	*******	31	UG/L	i i	1/3M	GRAB
RECOVERABLE	REQUIREMENT	******	*******		*******	******	NL	UG/L	 	1/3M	GRAB
	REPORTED			İ				 -		1 7 3 7 7	GRAND
	REQUIREMENT					 		 	 	 	<u> </u>
	REPORTED			 			<u> </u>	· 	 		,
	REQUIREMENT			 				1	 		
	REPORTED			İ	<u>. </u>	 	<u> </u>	<u>-!</u>	 	1	1
	REQUIREMENT					 			1		
	REPORTED			<u> </u>			· · · · · · · · · · · · · · · · · · ·	<u> </u>	<u> </u>		
	REQUIREMENT		-	 -				<u> </u>	 .	 	
	REPORTED			 		<u> </u>		<u> </u>		<u> </u>	<u> </u>
	REQUIREMENT	<u> </u>					 		 		
	REPORTED			Ì							-
	REQUIREMENT	· · · · · · · · · · · · · · · · · · ·		 		 		 	 	 	
	REPORTED			<u> </u>		<u> </u>	<u> </u>	. <u>!</u> 			
	REQUIREMENT			 			 	 		 	

BYPASSES AND	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATO		T			
OVERFLOWS O O NA				Rand, A. Nellina	ava a	· · · · · · · · · · · · · · · · · · ·	203	7	1
		HAT THIS DOCUMENT AND A		TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
DESIGNED TO AS INFORMATION SU	SSURE THAT QUALIFIED FOR CHILD BETTINBUS	EPERVISION IN ACCORDANC TO PERSONNEL PROPERLY GA MY INQUINY OF THE PERSO	ATHER AND EVALUATE THE ON OR PERSONS	PRINCIPAL EXECUTIVE OFFICE	R OR AUTHORIZED AGENT	TELEPHONE	 		
BELIEF TRUE, A	THE INFORMATION SUBMACCURATE AND COMPLET	MITTED IS TO THE BEST OF THE LIAM AWARE THAT THE		TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY
Ann IMPRISONNE	HENT FOR KNOWING ATOL	LATIONS,	THE CONTRACT OF PARTY	Tood Williams	Jole a w	,	2017	7	1

1 July 2013

Department of Environmental Quality Northern Virginia Regional Office 13901 Crown Court Woodbridge VA 22193-1453



SUBJECT: Permit Number VAG250034

Pursuant to the General VPDES Permit # VAG250034, please find attached the Discharge Monitoring Report (DMR), lab report, and calibration data for the National Reconnaissance Office's (NRO) cooling water discharge for the period of 04/01/2013 to 06/30/2013.

During this reporting period the NRO experienced one occurrence. Please see below:

On 28 May 2013, our VELAP laboratory vendor, Greenway Engineering conducted the permit required testing and sample collection for the 2nd quarter of CY2013. Greenway conducted the total residual chlorine (TRC) test that resulted with a reading of 0.48 mg/l. The permit requires the NRO to have less than 0.1 mg/l (Non-Detectable). The NRO will continue to monitor the TRC levels and is evaluating chemical treatment solutions as a potential option. The VADEQ was notified on 28 May 2013 of the occurrence by telephone in accordance with permit requirements.

If you have any questions, please contact Shane Czerkas at (703) 808-1892.

Todd Williams

Chief of Facilities Operations

LABORATORY CHAIN-OF-CUSTODY RECORD

			-										
<u> </u>	env	-		C	lient Project ID	/PO#:	Gre	enway Er	ovironm	ental Laboratory	•		
LA	BORATE	RY					130	5281342		Ammonia, as Ni	•		
www.greenw	•			_			Grai Outi	b fall 001		Boeing Service (5/28/2013	Сопралу		
Winchester,			L							3/26/2013	10:20:00 AM		
Phone: (540) 6	62-4185	Fax: (5											
Email: weilsh:	<u>и ен енх</u>	<u>iyethy.cott</u>	<u>)</u>										
Boeing Servi	ice Comp		s of Sampling Sit	e	Sampling D)ate: 1,3		Samplin		:(s):			
14675 Lee Re Chantilly, V		715			Sampler (pr	int)		Sample Source (Outfall 001, Final Eff., etc.)					
Billing and I		Addresse	(if different)		Andr	artin	Permit# V VG 74/00/24 Outfall 001 (Final Effluent)						
Shane G. Cz P.O. Box 22					Sampler (sig	enature)		Matrix	WW. C	W, GW, PW, STW, S)	Terre Isolano		
Chantilly, V					•				Cooling Water)	FCL IR IIIV			
	7 . =0=	000 400			all x mats			D - 1		NAME OF	LINEO		
Contact Pho	ne: 1-703	-808-1897	2 Shane Czerkas				Regulatory Agency NPDES DEQ DCLS/ODW None Other:						
Field Data p	erformed	by:(Unw (inii) C	أسأ	RMC					: 1023	0.00		
pH/Temp: TRC:	Result 1: Result 1:	0,48	SU/ <u>25,8</u> °C 1		e I: <u>[G24</u> D [028 Dupl			/ <u>25.8 °</u> 0 ₁ /I Dup			am_		
ę.			es a v										
Relinquished			Date/Time	_	Received by (signature)		Date/T	ime	Condition			
(hh			5/25/13 1242	?	S			Date/T		Condition			
Relinquished	u by (sign	iature)	Date/Time	+1	Received by (signature)		Date/1	ime	Condition			
Relinquishe	d by (sign	rature)	Date/Time	1	Received in L	ab by: (sign	nature)	Date/T	ime	Condition at Lab Re	eceipt		
		<u></u>		+	Cichr					Good weler			
**	<i>'</i> ,		,					1,60113	12 2	CCCH TEETER	116/13/74		
Email Resul			Turnaround Requ						ed Duc	Date if Priority:			
Report to El	nau	Us t els in	gh propher man		Copy To En	iail(s) (it al	oplicable).	F-1					
PROJECT I	D:		GREENWA	λY I	ENGINEER	ING USE	ONLY (indicated	by gra	y areas)			
Client Sample ID	Sample Time	CRAB/ COMP.	Greenway Sample I	D	Container Size/Type	Preserv	pH	Temp ^C	TRC	Analysis Requested (circle)	Comment /Note		
1305281342	1020	Grab	1305281342		500 ml	H2SO4,	1.73	0.1	0.30	American			
	1000	Grab			Plastic	<4C 13H2SO4,		1	10	Nitrogen, as N Total			
1305281344	1020	Grab	(305281344	-	Plastic N'	<4C	1.3/1.7	0.1/0.1		Phosphorus, as P			
130528134A	1020		130528134A		250 ml Plastic	HNO3	X	0.1	X	Total Hardness,			
	1	Grab-			250 ml. Plastic th	< 46 5 23√13				Copper (Cu), Zinc (Zu)	Gu-8-Zn 'disented hotal		
Observation	s and Co	mments:	Flusheed In	૧૯	10 min p	rier to	Sempli	ng		-	cu s/23/13		
Samples Rec			ı ice	Typ	pe of Ice (circ	le): Wer B	lue None	: All t	emps <	6C? N (If no, se	ce balow).		
If not <6C, v	vete sam	ples <i>gral</i>	<i>samples</i> & deliv	ere.	d immed. aft	er collection	on and ha	ad the cod	oling pr	ocess began? \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(a/a)		
Short hold-ti	me analy	ysis? (<7:	2 hour) Y 🚫	Sar	pples rec'd in	n hold? 🕥	N Prop	perly pres	erved?	Y) N Circle N he	re: YKLYÝ		
Sufficient vo	lume & i	intact?/\f`	N COC comple	ete?	Y'N Bottle	e times ma	tch COC	times 1	リN n	Tabels match CC	OCY)N		
	vater W.L Sciff (.) t	= Water 	SW = Surface Wate	er (GW = Ground	Water PW	= Public \ _accord	Water STV	X' = Stor Umraea	m Water S = Soil/Sol	li d* Marijas 1. gr. j		
Thermo Scien	itific 3 St	ar Portab	le pH Meter S/N	V 01	1270			LaMon	e 1200 (Colorimeter S/N 146			
Date: 21/23/13 T Check Known n	ime: <u>† 121.</u> 11.7.0 - Ch	<u>U</u> B4A// uck nH 7.0	r. <u>q'00/15/0</u> B7 V/T Result: 3,02 Mee	101	<u> 対応を</u> B10 V/T item2 (V/N)	1610/11/3		<u>128] 13</u> - 15 O 13 - St		3 1_ 8id C: 258			
Duplicates meet	corena? ()	7N) <u>Y</u>		s.v 1 I	*** *** * * / * * /* _					Dups?			

6/11/2013

Boeing Service Company 4101 Pleasant Valley Road Chantilly, VA 20151 Report # 1306111314

Enclosed are the analytical results for the sample(s) received by the laboratory.

The results relate only to the samples included in this report. Results herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me. Sincerely,

andrea R. Martin

Laboratory Manager

amartin@greenwayeng.com

Selected Fields of Certification (Non-Potable Water)

Analyte	Method	Method Rev.	Technology
Microbiology			
ESCHERICHIA COLI	Collilert	200	7 CF-QN
Inorganic Chemistry			•
KJELDAHL NITROGEN-TOTAL	SM 4500 NH3 D	20th ED 199	7 UV-VIS
ORTHOPHOSPHATE AS P	HACH 8048	201	2 UV-VIS
PHOSPHORUS, TOTAL, AS P	HACH 8190	201	2 UV-VIS
NITRITE, AS N	HACH 8507	201	2 UV-VIS
ALKALINITY AS CaCO3	SM 2320 B	20th ED 199	7 TITR
CHLORIDE	SM 4500-CL B	20th ED 199	7 TITR
AMMONIA AS N	SM 4500-NH3 D	20th ED 199	7 ISE
NITRATE/NITRITE, AS N	SM 4500 NO3 E	20th ED 199	7 UV-VIS
NITRATE AS N	SM 4500 NO3D	20th ED 199	7 ISE
Oxygen Demand			
BIOCHEMICAL OXYGEN DEMAND, BOD5	SM 5210 B	20th ED 199	7 GALV
CARBONACEOUS BOD, CBOD5	SM 5210 B	20th ED 199	7 GALV
Physical			
RESIDUE-NONFILTERABLE (TSS)	SM 2540 D	20th ED 199	7 GRAV





Greenway Engineering, Inc.

Environmental Services 151 Windy Hill Lane Winchester, VA 22602 540-662-4185

www.greenwayeng.com

Certificate of Analysis

Customer: Boeing Service Company

4101 Pleasant Valley Road

Chantilly, VA 20151

Report #:

1306111314

Report Date: Received:

6/11/2013

Collected:

5/28/2013 5/28/2013

Conclusion:

*Data Qualifier Total Phosphorus & Total Zinc: analyte detected in reagent blank.

Outfall 001

Sample	Analysis	Result	Units	Date	Tech	Method
1305281342	Ammonia-N	<0.1	mg/l	5/30/2013	arm	SM 4500 NH3 D
1305281344	Phosphorus, Total (as P)	1.25	mg/l	5/30/2013	sed	Hach 8190
130528134A	Copper (Cu)	0.021	mg/l	6/6/2013	PACE	EPA 200.7
	Hardness, Total (as CaCO3)	591	mg/l	6/6/2013	PACE	EPA 200 7
	Zinc (Zn)	0.0281	mg/l	6/6/2013	PACE	EPA 200.7
1305281756	Chlorine Residual	0.48	mġ/l	5/28/2013	am	SM 4500 CI G
	рH	8.92	SU	5/28/2013	arm	SM 4500H+B
	Temperature	25.8	°C	5/28/2013	arm	SM 2550 B

Nutrient Quantification Levels

<u>Parameter</u>	QL
Nitrate	0.10
Nitrite	0.002
Nitrate+Nitrite	0.05
Ammonia Nitrogen	0.10
Total Kjeldahl Nitrogen	0.50
Ortho-Phosphate	0.02
Total Phosphorus	0.04

Sample preparation and methodology per 40 CFR Part 136 of the Federal Register Method prefix SM: Standard Methods for the Examination of Water and Wastewater, 20th edition

This report shall not be reproduced, except in full, without the written consent of Greenway Engineering, Inc.

Checked By:

andrea x. marto

6/11/2013

report of laboratory analysis

This report shall not be repreduced, except in fell, without the written consent of Greenway Engineering, Inc.

الم المراجعة

Page 2 of 6 VELARO 060028

www.greenway.vetlab.com Voice: 540-662-4185 Fax: \$40-722-9528



Sample Summary

Greenway Environmental Lab

1305281342

Project: Location: Ammonia, as Nitrogen

Sampler: Collected: ARM

Batch: Time:

10:20

Sample Type:

Outfall 001 Grab

Received:

5/28/2013 5/28/2013

Time:

12:42

Customer:

Boeing Service Company

Started:

5/28/2013

Due:

Cust. Sample:

PO:

4500219705

Completed:

Reported:

Invoice:

Invoiced:

Description:

Notes:

Report# 1306111314

Document:

Conclusions:

Result Units

MDL Method

Date Time

Tech/Lab

Ammonia-N

Analysis

<0.1 mg/i

0.02 SM 4500 N 5/30/2013 18:01

Paperwork Status

Reagent Blank

Sample Duplicate

0

Emailed/Faxed Mailed COA

N/A N/A

Concentration

Relative Difference

N/A 0 N/A

Analyte Ammonia-N

QC Type	Result	Value
Check Standard	Recovery	110
Check Standard 2	Recovery	112
Check Standard 2	Recovery	114
Check Standard 3	Recovery	112.06
Correlation coefficient	Value	0.999823
End of Batch CCV	Recovery	107.1
LCS Duplicate	Relative Difference	1.77
Matrix Spike	Recovery	120.16 H
Matrix Spike	Recovery	120.16 H

Value Units Reference % %

%

%

N/A

%

%

%

%

mg/l

0.01

Value Units Tech. arm arm arm arm arm arm

> arm arm arm arm

www.greenwaywetlab.com Voice: 540-662-4185 Fax: 540-722-9528



Sample Summary

Greenway Environmental Lub

1305281344 ARM **Phosphorus** Batch: Project: Sampler: Outfall 001 Collected: 5/28/2013 Time: 10:20 Location; 5/28/2013 Time: 12;42 Sample Type: Grab Received: 5/28/2013 Boeing Service Company Started: Due: Customer: Cust. Sample: Completed: Reported: PO: 4500219705 Invoice: Invoiced:

Description:

Notes:

Report# 1306111314

*Data qualifier Total Phosphorus: analyte detected in reagent blank.

Document: Conclusions:

Analysis	a Militar de asses	Result Units	MDL	Method	Date	Time	Tech	/Lab
Phosphorus, Total (as P)	1.25 mg/l	0.04	Hach 8190	5/30/2013	14:20	sed	
Paperwork Status								
Emailed/Faxed		N/A	0	N/A				
Mailed COA		N/A	0	N/A				
Analyte	QC Type	Result	Value	Units	Reference	Value	Units	Tech.
Phosphorus, Total (as P)	Check Standard	Recovery	99.67	%	• •			arm
	Check Standard	Recovery	99.33	%				arm
	Correlation coefficient	Value	0.9992	N/A				arm
	LCS Duplicate	Relative Difference	0.32	%				arm
	Matrix Spike	Recovery	98.1	%				arm
	Matrix Spike Duplicate	Recovery	97.7	%				arm
	Matrix Spike Triplicate	Recovery	95.5	%				arm
	Reagent Blank	Concentration	0.04	mg/l				arm
	Sample Duplicate	Relative Difference	2.01	0/6				arm



www.greenwaywetlab.com Voice: 540-662-4185 Fax: 540-722-9528

Sample Summary

Greenway Environmental Lab

130528134A

Project: Location: Metals

Outfall 001

Sampler: Collected: ARM 5/28/2013

Batch: Time:

10:20

Sample Type: Customer:

Grab

Received:

5/28/2013

Time:

12:42

Cust. Sample:

Boeing Service Company

Started: Completed: 5/28/2013

Due:

PO:

4500219705

Invoice:

Reported: Invoiced:

Description:

Notes:

Report# 1306111314

*Data qualifier Total Zinc. analyte detected in reagent blank.

Document:

Conclusions:

Analysis	Result Units	MDL Method	Date Time	Tech/Lab
Copper (Cu)	0.021 mg/l	0.005 EPA 200.7	6/6/2013 0:18	Pace Analytic
Hardness, Total (as CaCO3)	591 mg/l	0.662 EPA 200.7	6/6/2013 16 01	Pace Analytic
Zinc (Zn)	0.0281 mg/l	0.01 EPA 200.7	6/6/2013 0:18	Pace Analytic
Paperwork Status				
Emailed/Faxed	N/A	0 N/A		
Mailed COA	N/A	0 N/A		

www.greenwaywetlab.com Voice: 540-662-4185 Fax: 540-722-9528

Sample Summary

Greenway Environmental Lab

1305281756

Project: Location: Field pH Analysis Outfall 001

Sample Type: Customer:

Grab

Boeing Service Company

Cust. Sample:

PO:

4500219705

Sampler: Collected: Received:

Started:

Invoice:

Completed:

ARM 5/28/2013 5/28/2013

Batch: Time: Time:

10:23 10:23

5/28/2013 5/28/2013 Reported:

Due:

6/11/2013

Invoiced:

Description:

Notes:

Report# 1306111314

Document: Conclusions:

Analysis	Result Units	MDL	Method	Date	Time	Tech/Lab
Chlorine Residual	0.48 mg/l	0.1	SM 4500 CI	5/28/2013	10:28	arm
рH	8.92 SU	0	SM 4500H+	5/28/2013	10:24	arm
Temperature	25.8 °C	-20	SM 2550 B	5/28/2013	10:24	arm